

- - 10. (Twice Amended) A microfabricated battery comprising a system for internal storage of electricity comprising reactants, the microfabricated battery having a volumetric size which is microscopic including a micrometer footprint substantially less than  $20\text{ cm}^2$  and congruent with a microelectronic circuit accommodating integration with the circuit to provide long term stored power and to materially limit power losses, the microfabricated battery comprising a body of material having a first microfabricated electrode of chemically reactant material, a second microfabricated electrode spaced from the first electrode and a microscopic amount of internal ion-transmitting electrolyte which restricts electronic current flow and accommodates reactions at the electrodes contained within an internal microfabricated space in the body accessible to both electrodes. - -

A marked up copy of the foregoing is presented below:

- - 10. (Twice Amended) A micro[scopic]fabricated battery comprising a system for internal storage of electricity comprising reactants, [which] the micro[scopic]fabricated battery having a volumetric size which is microscopic including a micrometer footprint substantially less than  $20\text{ cm}^2$  and congruent with a microelectronic circuit accommodating integration with the circuit to provide long term stored power and to materially limit power losses, the micro[scopic]fabricated battery comprising a body of material having a first micro[scopic]fabricated electrode of chemically reactant material, a second micro[scopic]fabricated electrode spaced from the first electrode and a microscopic amount of internal ion-transmitting electrolyte which restricts electronic current flow and accommodates reactions at the electrodes contained within an internal micro[scopic]fabricated space in the body accessible to both electrodes. - -

-- 11. (Twice Amended) The microfabricated battery according to claim 10 wherein the microfabricated battery is rechargeable. - -

A marked up copy of the foregoing is presented below:

- - 11. (Twice Amended) The micro[scopic]fabricated battery according to claim 10 wherein the micro[scopic]fabricated battery is rechargeable. - -

-- 12. (Twice Amended) The microfabricated battery according to claim 10 wherein the microfabricated battery is primary. - -

A marked up copy of the foregoing is presented below:

- - 12. (Twice Amended) The micro[scopic]fabricated battery according to claim 10 wherein the micro[scopic]fabricated battery is primary. - -

- - 13. (Twice Amended) The microfabricated battery according to claim 10 further comprising an autonomous sensor system integrated with the microfabricated battery. - -

A marked up copy of the foregoing is presented below:

- - 13. (Twice Amended) The micro[scopic]fabricated battery according to claim 10 further comprising an autonomous sensor system integrated with the micro[scopic]fabricated battery.

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- - 14. (Twice Amended) The microfabricated battery according to claim 13 wherein the autonomous sensor system senses conditions, analyzes data, and issues radio frequency signals. - -

A marked up copy of the foregoing is presented below:

- - 14. (Twice Amended) The micro[scopic]fabricated battery according to claim 13 wherein the autonomous sensor system senses conditions, analyzes data, and issues radio frequency signals. - -

-- 15. (Twice Amended) The microfabricated battery according to claim 10 wherein at least one of the electrodes comprises a microfabricated film of conductive material. --

A marked up copy of the foregoing is presented below:

-- 15. (Twice Amended) The micro[scopic]fabricated battery according to claim 10 wherein at least one of the electrodes comprises a [thin] microfabricated film of conductive material. --

-- 16. (Twice Amended) The microfabricated battery according to claim 10 wherein the electrodes are held apart by a separator comprising the electrolyte. --

A marked up copy of the foregoing is presented below:

-- 16. (Twice Amended) The micro[scopic]fabricated battery according to claim 10 wherein the electrodes are held apart by a separator comprising the electrolyte. --

-- 17. (Twice Amended) The microfabricated battery according to claim 10 wherein the electrodes are carried on a rigid dielectric substrate. --

A marked up copy of the foregoing is presented below:

-- 17. (Twice Amended) The micro[scopic]fabricated battery according to claim 10 wherein the electrodes are carried on a rigid dielectric substrate. - -

-- 18. (Twice Amended) The microfabricated battery according to claim 10 wherein the electrodes are carried on a flexible sheet. - -

A marked up copy of the foregoing is presented below:

-- 18. (Twice Amended) The micro[scopic]fabricated battery according to claim 10 wherein the electrodes are carried on a flexible sheet. - -

-- 19. (Twice Amended) The microfabricated battery according to claim 10 wherein the electrodes are created by metallic deposition, thin layer lithographic patterning and etching. - -

A marked up copy of the foregoing is presented below:

-- 19. (Twice Amended) The micro[scopic]fabricated battery according to claim 10 wherein the electrodes are created by metallic deposition, thin layer lithographic patterning and etching. - -

-- 20. (Twice Amended) The microfabricated battery according to claim 10 wherein the electrodes comprise an etched profile obtained by removing sacrificial material. - -

A marked up copy of the foregoing is presented below:

- - 20. (Twice Amended)     The micro[scopic]fabricated battery according to claim 10 wherein the electrodes comprise an etched profile obtained by removing sacrificial material. - -

- -21. (Twice Amended)     An energy storage microfabricated rechargeable battery having internal only chemical reactants, the battery having a volumetric size comprising a micrometer footprint adapted for direct and congruent size integration with microelectromechanical systems and/or microcircuitry to reduce power losses, the microfabricated rechargeable battery comprising internal only etched spaced electrodes of reactant material comprising microscopically sized footprints with an internal only microfabricated space containing electrode reaction accommodating electrolyte interposed between the spaced reactant electrodes. - -

A marked up copy of the foregoing is presented below:

- -21. (Twice Amended)     An energy storage micro[scopic]fabricated rechargeable battery having internal only chemical reactants, the battery having a volumetric size comprising a micrometer footprint adapted for direct and congruent size integration with microelectromechanical systems and/or microcircuitry to reduce power losses, the micro[scopic]fabricated rechargeable battery comprising internal only etched spaced electrodes of reactant material comprising microscopically sized footprints with an internal only micro[scopic]fabricated space containing electrode reaction accommodating electrolyte interposed between the spaced reactant electrodes. - -

-- 22. (Twice Amended)      The microfabricated rechargeable battery according to claim 21 wherein a microfabricated separator associated with the electrolyte is interposed between the microfabricated electrodes. - -

A marked up copy of the foregoing is presented below:

-- 22. (Twice Amended)      The micro[scopic]fabricated rechargeable battery according to claim 21 wherein a micro[scopic]fabricated separator associated with the electrolyte is interposed between the micro[scopic]fabricated electrodes. - -

-- 23. (Twice Amended)      The microfabricated rechargeable battery according to claim 21 wherein the thin electrode layers comprise generally flat conductive microfabricated film. - -

A marked up copy of the foregoing is presented below:

-- 23. (Twice Amended)      The micro[scopic]fabricated rechargeable battery according to claim 21 wherein the thin electrode layers comprise generally flat conductive microfabricated film. -

-- 24. (Twice Amended)      The microfabricated rechargeable battery according to claim 21 wherein the microfabricated battery is sealed. - -

A marked up copy of the foregoing is presented below:

--24. (Twice Amended)      The micro[scopic]fabricated rechargeable battery according to claim 21 wherein the micro[scopic]fabricated battery is sealed. - -

--25. (Twice Amended)      The microfabricated rechargeable battery according to claim 21 wherein the battery geometry is selected from the group consisting of: (a) flat cell; (b) spirally wound; (c) bipolar; and (d) linear. - -

A marked up copy of the foregoing is presented below:

--25. (Twice Amended)      The micro[scopic]fabricated rechargeable battery according to claim 21 wherein the battery geometry is selected from the group consisting of: (a) flat cell; (b) spirally wound; (c) bipolar; and (d) linear. - -

--26. (Twice Amended)      The microfabricated rechargeable battery according to claim 21 wherein the battery geometry is selected from the groups consisting of: (a) wire-shaped; (b) odd-shaped; (c) wire in a can; and (d) peg in a block.- -

A marked up copy of the foregoing is presented below:



-26. (Twice Amended) The micro[scopic]fabricated rechargeable battery according to claim 21 wherein the battery geometry is selected from the groups consisting of: (a) wire-shaped; (b) odd-shaped; (c) wire in a can; and (d) peg in a block.- -

-27. (Twice Amended) The microfabricated rechargeable battery according to claim 21 wherein at least one electrode comprises a reactant material selected from the group consisting essentially of materials comprising: (a) lead; (b) zinc; (c) nickel; and (d) derivatives thereof.- -

A marked up copy of the foregoing is presented below:

-27. (Twice Amended) The micro[scopic]fabricated rechargeable battery according to claim 21 wherein at least one electrode comprises a reactant material selected from the group consisting essentially of materials comprising: (a) lead; (b) zinc; (c) nickel; and (d) derivatives thereof.- -

-28. (Twice Amended) The microfabricated rechargeable battery according to claim 21 wherein at least one reactant electrode comprises a material selected from the group consisting essentially of materials comprising: (a) a metal hydride; (b) lithium; (c) silver; and (d) copper, and derivatives thereof.- -

A marked up copy of the foregoing is presented below:

-28. (Twice Amended) The micro[scopic]fabricated rechargeable battery according to claim 21 wherein at least one reactant electrode comprises a material selected from the group consisting essentially of materials comprising: (a) a metal hydride; (b) lithium; (c) silver; and (d) copper, and derivatives thereof.- -

-29. (Twice Amended) The microfabricated rechargeable battery according to claim 21 wherein at least one reactant electrode comprises a material selected from the group consisting essentially of materials comprising: (a) platinum; (b) carbon; (c) cadmium; and (d) lanthanum, and derivatives thereof.- -

A marked up copy of the foregoing is presented below:

-29. (Twice Amended) The micro[scopic]fabricated rechargeable battery according to claim 21 wherein at least one reactant electrode comprises a material selected from the group consisting essentially of materials comprising: (a) platinum; (b) carbon; (c) cadmium; and (d) lanthanum, and derivatives thereof.- -

-30. (Twice Amended) The microfabricated rechargeable battery according to claim 21 wherein the reaction accommodating electrolyte is selected from the group consisting essentially of: (a) liquid; (b) solid; and (c) a hybrid of liquid and solid.- -

A marked up copy of the foregoing is presented below:

-30. (Twice Amended) The micro[scopic]fabricated rechargeable battery according to claim 21 wherein the reaction accommodating electrolyte is selected from the group consisting essentially of: (a) liquid; (b) solid; and (c) a hybrid of liquid and solid.- -

-31. (Twice Amended) The microfabricated rechargeable battery according to claim 30 wherein the solid reaction accommodating electrolyte is selected from the group consisting essentially of: (a) an ion-conducting polymer; (b) lithium glass; and (c) a polymer containing an ionically-conductive material.- -

A marked up copy of the foregoing is presented below:

-31. (Twice Amended) The micro[scopic]fabricated rechargeable battery according to claim 30 wherein the solid reaction accommodating electrolyte is selected from the group consisting essentially of: (a) an ion-conducting polymer; (b) lithium glass; and (c) a polymer containing an ionically-conductive material.- -

-32. (Twice Amended) The microfabricated rechargeable battery according to claim 30 wherein the liquid reaction accommodating electrolyte comprises an aqueous solution also comprised of potassium hydroxide and/or sulfuric acid.- -

A marked up copy of the foregoing is presented below:

-32. (Twice Amended) The micro[scopic]fabricated rechargeable battery according to claim 30 wherein the liquid reaction accommodating electrolyte comprises an aqueous solution also comprised of potassium hydroxide and/or sulfuric acid. - -

-33. (Twice Amended) An internal electrical energy storage microfabricated rechargeable battery comprising a volumetric microscopic size including a micrometric-sized footprint for direct size and electronic integration into a microelectromechanical system or non-microelectromechanical system microcircuit to alleviate power losses, the battery comprising at least one electrical energy storage cell comprised of internal reactants only in the nature of separated internal microfabricated electrodes each having a footprint substantially less than 20 cm<sup>2</sup> of reactant material etched and patterned in place to define an internal microfabricated electrolyte storage space between the etched microfabricated electrodes. - -

A marked up copy of the foregoing is presented below:

-33. (Twice Amended) An internal electrical energy storage micro[scopic]fabricated rechargeable battery comprising a volumetric microscopic size including a micrometric-sized footprint for direct size and electronic integration into a microelectromechanical system or non-microelectromechanical system microcircuit to alleviate power losses, the battery comprising at least one electrical energy storage cell comprised of internal reactants only in the nature of separated internal micro[scopic]fabricated electrodes each having a footprint substantially less than 20 cm<sup>2</sup> of reactant material etched and patterned in place to define an internal micro[scopic]fabricated electrolyte storage space between the etched micro[scopic]fabricated electrodes. - -

-34. (Twice Amended) The microfabricated rechargeable battery according to claim 33 wherein at least one reactant electrode comprises a thin microfabricated film of conductive material.-

A marked up copy of the foregoing is presented below:

--34. (Twice Amended) The micro[scopic]fabricated rechargeable battery according to claim 33 wherein at least one reactant electrode comprises a thin microfabricated film of conductive material.- -

--35. (Twice Amended) The microfabricated rechargeable battery according to claim 33 further comprising a non-conductivity base upon which components of the microfabricated battery are carried.- -

A marked up copy of the foregoing is presented below:

--35. (Twice Amended) The micro[scopic]fabricated rechargeable battery according to claim 33 further comprising a non-conductivity base upon which components of the micro[scopic]fabricated battery are carried.- -

-36. (Twice Amended)      The microfabricated rechargeable battery according to claim 35 wherein the base is selected from the group consisting essentially of: (a) conformal material and (b) rigid material. - -

A marked up copy of the foregoing is presented below:

-36. (Twice Amended)      The micro[scopic]fabricated rechargeable battery according to claim 35 wherein the base is selected from the group consisting essentially of: (a) conformal material and (b) rigid material. - -

-37. (Twice Amended)      The microfabricated rechargeable battery according to claim 33 further comprising a non-reactant electrolyte influent flow path extending through at least one electrode by which liquid electrolyte is introduced into the storage space. - -

A marked up copy of the foregoing is presented below:

-37. (Twice Amended)      The micro[scopic]fabricated rechargeable battery according to claim 33 further comprising a non-reactant electrolyte influent flow path extending through at least one electrode by which liquid electrolyte is introduced into the storage space. - -

-38. (Twice Amended) The microfabricated rechargeable battery according to claim 33 wherein the storage space comprises an etched cavity.- -

A marked up copy of the foregoing is presented below:

-38. (Twice Amended) The micro[scopic]fabricated rechargeable battery according to claim 33 wherein the storage space comprises an etched cavity.- -

-39. (Twice Amended) The microfabricated rechargeable battery according to claim 33 wherein a separator associated with electrolyte in the storage space prevents contact between the electrodes.- -

A marked up copy of the foregoing is presented below:

-39. (Twice Amended) The micro[scopic]fabricated rechargeable battery according to claim 33 wherein a separator associated with electrolyte in the storage space prevents contact between the electrodes.- -

-40. (Twice Amended) The microfabricated rechargeable battery according to claim 33 wherein the storage space comprises a porous separator carrying reaction accommodating electrolyte.-

A marked up copy of the foregoing is presented below:

- -40. (Twice Amended)      The micro[scopic]fabricated rechargeable battery according to claim 33 wherein the storage space comprises a porous separator carrying reaction accommodating electrolyte. - -

- -41. (Twice Amended)      A method comprising the acts of:

fabricating a microfabricated electrical energy storage battery comprised of reactant microfabricated electrodes by which an electrical charge is chemically transferred and having a microscopic footprint substantially less than 20 cm<sup>2</sup> which is size-congruent and electronically compatible with a microelectromechanical system ;

integrating the microfabricated battery into the microelectromechanical system as an integrated internal source of electrical power. - -

A marked up copy of the foregoing is presented below:

- -41. (Twice Amended)      A method comprising the acts of:

fabricating a micro[scopic]fabricated electrical energy storage battery comprised of reactant microfabricated electrodes by which an electrical charge is chemically transferred and having a microscopic footprint substantially less than 20 cm<sup>2</sup> which is size-congruent and electronically compatible with a microelectromechanical system ;

integrating the micro[scopic]fabricated battery into the microelectromechanical system as an integrated internal source of electrical power. - -



- 42. (Twice Amended) A method comprising the acts of:

fabricating a microfabricated electrical energy storage battery comprised of chemical reactant microfabricated electrodes and having a microscopic footprint substantially less than  $20\text{ cm}^2$  which is size-congruent, material-compatible and electronically suitable to be integrated into microcircuitry;  
integrating the microfabricated battery with the microcircuitry as a long term internally-derived source of electrical power. - -

A marked up copy of the foregoing is presented below:

- 42. (Twice Amended) A method comprising the acts of:

fabricating a micro[scopic]fabricated electrical energy storage battery comprised of chemical reactant microfabricated electrodes and having a microscopic footprint substantially less than  $20\text{ cm}^2$  which is size-congruent, material-compatible and electronically suitable to be integrated into microcircuitry;  
integrating the micro[scopic]fabricated battery with the microcircuitry as a long term internally-derived source of electrical power. - -

- 43. (Twice Amended) A method comprising the acts of:

fabricating a microfabricated electrical energy storage battery comprising a microscopic footprint substantially less than  $20\text{ cm}^2$  which is size-congruent material-compatible and electronically-suitable to be integrated as a power source into a microfabricated circuit;  
integrating the microfabricated battery into the microfabricated circuit as a fully integrated internally derived source of electrical power. - -

A marked up copy of the foregoing is presented below:

- 43. (Twice Amended)      A method comprising the acts of:

fabricating a micro[scopic]fabricated electrical energy storage battery comprising a microscopic footprint substantially less than 20 cm<sup>2</sup> which is size-congruent material-compatible and electronically-suitable to be integrated as a power source into a micro[scopic]fabricated circuit;

integrating the micro[scopic]fabricated battery into the micro[scopic]fabricated circuit as a fully integrated internally derived source of electrical power. - -

- 51. (Twice Amended)      A method of making a microfabricated battery for internal storage of electricity comprising the acts of:

forming spaced film microfabricated electrode layers of reactant materials upon non-conducting material, each layer having a microfabricated volume comprising a footprint substantially less than 20 cm<sup>2</sup>;

etching away sacrificial portions of at least one film microfabricated electrode layer of reactant material;

interposing reaction-accommodating electrolyte between the remaining microfabricated electrode layers of reactant material within a housing so that the electrode layers serve as internal only sources of reactants. - -

A marked up copy of the foregoing is presented below:

- 51. (Twice Amended) A method of making a micro[scopic]fabricated battery for internal storage of electricity comprising the acts of:

forming spaced thin film micro[scopic]fabricated electrode layers of reactant materials upon non-conducting material, each layer having a micro[scopic]fabricated volume comprising a footprint substantially less than 20 cm<sup>2</sup>;

etching away sacrificial portions of at least one thin film micro[scopic]fabricated electrode layer of reactant material;

interposing reaction-accommodating electrolyte between the remaining micro[scopic]fabricated electrode layers of reactant material within a housing so that the electrode layers serve as internal only sources of reactants. - -

- 52. (Twice Amended) The method according to claim 51 further comprising the act of interposing a microfabricated separator in communication with the electrolyte between the microfabricated electrode layers. - -

A marked up copy of the foregoing is presented below:

- 52. (Twice Amended) The method according to claim 51 further comprising the act of interposing a micro[scopic]fabricated separator in communication with the electrolyte between the micro[scopic]fabricated electrode layers. - -

- -53. (Twice Amended) The method according to claim 52 wherein the microfabricated separator is etched to provide a cavity for the electrolyte. - -

A marked up copy of the foregoing is presented below:

- -53. (Twice Amended) The method according to claim 52 wherein the micro[scopic]fabricated separator is etched to provide a cavity for the electrolyte. - -

- -54. (Twice Amended) The method according to claim 51 further comprising the act of interposing a non-conductive microfabricated polymeric separator in communication with the electrolyte between the microfabricated electrode layers. - -

A marked up copy of the foregoing is presented below:

- -54. (Twice Amended) The method according to claim 51 further comprising the act of interposing a non-conductive micro[scopic]fabricated polymeric separator in communication with the electrolyte between the micro[scopic]fabricated electrode layers. - -

- - 89. (Twice Amended) A conformable microfabricated battery comprising a microfabricated volume and an internal only source of electricity having a first microfabricated electrode of reactant material in the form of a microscopic wire, reaction-accommodating electrolyte concentrically disposed around the microscopic wire and a second hollow tubular microscopic electrode of reactant material concentrically surrounding the electrolyte, the surface area of which is microscopic and substantially less than  $20 \text{ cm}^2$ . - -

A marked up copy of the foregoing is presented below:

- - 89. (Twice Amended) A conformable micro[scopic]fabricated battery comprising a micro[scopic]fabricated volume and an internal only source of electricity having a first micro[scopic]fabricated electrode of reactant material in the form of a microscopic wire, reaction-accommodating electrolyte concentrically disposed around the microscopic wire and a second hollow tubular microscopic electrode of reactant material concentrically surrounding the electrolyte, the surface area of which is microscopic and substantially less than  $20 \text{ cm}^2$ . - -

- -90. (Twice Amended) The conformable microfabricated battery according to claim 89 wherein the electrolyte is aqueous.- -

A marked up copy of the foregoing is presented below:

-90. (Twice Amended) The conformable micro[scopic]fabricated battery according to claim 89 wherein the electrolyte is aqueous.- -

-91. (Twice Amended) The conformable microfabricated battery according to claim 90 wherein the aqueous electrolyte is disposed in a porous material.- -

A marked up copy of the foregoing is presented below:

-91. (Twice Amended) The conformable micro[scopic]fabricated battery according to claim 90 wherein the aqueous electrolyte is disposed in a porous material.- -

-92. (Twice Amended) The conformable microfabricated battery according to claim 89 wherein the electrolyte is solid.- -

A marked up copy of the foregoing is presented below:

-92. (Twice Amended) The conformable micro[scopic]fabricated battery according to claim 89 wherein the electrolyte is solid.- -

- -94. (Twice Amended) A rechargeable microfabricated battery comprising an internally operated source of electricity comprising internal only reactants in the nature of first and second spaced microfabricated electrodes, each being microfabricated to a microscopic volume and comprising a microfabricated footprint substantially less than 20 cm<sup>2</sup> and a microscopic amount of aqueous reaction-accommodating electrolyte disposed in a microfabricated cavity between the reactant microfabricated electrodes. - -

A marked up copy of the foregoing is presented below:

- -94. (Twice Amended) A rechargeable micro[scopic]fabricated battery comprising an internally operated source of electricity comprising internal only reactants in the nature of first and second spaced micro[scopic]fabricated electrodes, each being micro[scopic]fabricated to a microscopic [in] volume and comprising a microscopic footprint substantially less than 20 cm<sup>2</sup> and a micro[scopic]fabricated amount of aqueous reaction-accommodating electrolyte disposed in a micro[scopic]fabricated cavity between the reactant micro[scopic]fabricated electrodes. - -

- -95. (Twice Amended) A method of making a microfabricated battery comprising an internally operated source of electricity comprising internal only reactants, the method comprising the serial acts of depositing as microfabricated film a microscopic internal reactant in the nature of a first microfabricated electrode, a spacer and a microscopic internal reactant in the nature of a second microfabricated electrode comprising a footprint substantially smaller than 20 cm<sup>2</sup>, etching a part of the spacer to create a microfabricated cavity which accesses to both electrodes and filling the microfabricated cavity with aqueous reaction-accommodating electrolyte through a passageway in one of the thin films. - -

A marked up copy of the foregoing is presented below:

- -95. (Twice Amended) A method of making a micro[scopic]fabricated battery comprising an internally operated source of electricity comprising internal only reactants, the method comprising the serial acts of depositing as [thin] microfabricated film a microscopic internal reactant in the nature of a first microfabricated electrode, a spacer and a microscopic internal reactant in the nature of a second microfabricated electrode comprising a footprint substantially smaller than 20 cm<sup>2</sup>, etching a part of the spacer to create a micro[scopic]fabricated cavity which accesses to both electrodes and filling the micro[scopic]fabricated cavity with aqueous reaction-accommodating electrolyte through a passageway in one of the thin films. - -

- -96. (Twice Amended) The method according to claim 95 wherein the filling act is through a passageway in one of the microfabricated electrodes. - -



A marked up copy of the foregoing is presented below:

- -96. (Twice Amended)      The method according to claim 95 wherein the filling act is through a passageway in one of the micro[scopic]fabricated electrodes. - -

Please add the following new claims:

- - 103. (Amended)      The microfabricated battery according to Claim 10 wherein the second microfabricated electrode is comprised of a chemical reactant material. - -

A marked up copy of the foregoing is presented below:

- - 103. (Amended)      The micro[scopic]fabricated battery according to Claim 10 wherein the second micro[scopic]fabricated electrode is comprised of a chemical reactant material. - -

- - 105. (Amended)      The microfabricated battery according to Claim 16 wherein the separator is comprised of polymeric material. - -

A marked up copy of the foregoing is presented below:

- - 105. (Amended)      The micro[scopic]fabricated battery according to Claim 16 wherein the separator is comprised of polymeric material. - -

- - 106. (Amended) The microfabricated battery according to Claim 16 wherein the separator is comprised of a dielectric material. - -

A marked up copy of the foregoing is presented below:

- - 106. (Amended) The micro[scopic]fabricated battery according to Claim 16 wherein the separator is comprised of a dielectric material. - -

- - 107. (Amended) The microfabricated battery according to Claim 16 wherein the separator comprises both solid and liquid materials.- -

A marked up copy of the foregoing is presented below:

- - 107. (Amended) The micro[scopic]fabricated battery according to Claim 16 wherein the separator comprises both solid and liquid materials.- -

- - 108. (Amended) The microfabricated battery according to Claim 42 wherein the microcircuitry is selected from the group consisting of a microelectromechanical system and a non-microelectromechanical microcircuit. - -

A marked up copy of the foregoing is presented below:

- - 108. (Amended) The micro[scopic]fabricated battery according to Claim 42 wherein the microcircuitry is selected from the group consisting of a microelectromechanical system and a non-microelectromechanical microcircuit. - -

- - 109. (Amended) A microfabricated battery comprising at least one cell comprising spaced microfabricated reactant electrodes and a microscopic amount of reaction-accommodating electrolyte disposed between the reactant microfabricated electrodes, the battery providing specific power within the range of  $10^{-0.4}$  to  $10^{1.6}$  KW/kg and specific energy within the range of  $10^{1.1}$  to  $10^{2.1}$  kJ/kg. - -

A marked up copy of the foregoing is presented below:

- - 109. (Amended) A micro[scopic]fabricated battery comprising at least one cell comprising spaced micro[scopic]fabricated reactant electrodes and a microscopic amount of reaction-accommodating electrolyte disposed between the reactant microfabricated electrodes, the battery providing specific power within the range of  $10^{-0.4}$  to  $10^{1.6}$  KW/kg and specific energy within the range of  $10^{1.1}$  to  $10^{2.1}$  kJ/kg. - -